CE labs can support many areas of your audio and video distribution needs.

We manufacture:
- Digital Signage software and Media Players
- HD Matrix Switchers
- RF modulators
- RF amplifiers
- HDMI and Component HD distribution amplifiers
- CAT 5 Signal Extenders
- VGA Extenders and Splitters
- and cables of all types.

See our full product line at www.celabs.net.

Cable Electronics, Inc.   www.celabs.net

3209 Wood Street
Garland, Texas 75041
(469)429-9200   Fax (469)429-9205

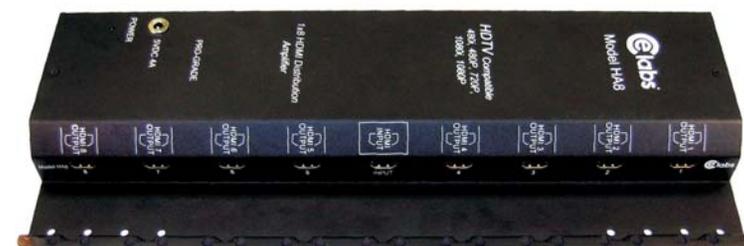Document: HA8_INFO_A.cdr   Rev. A

INSTRUCTION MANUAL

Celabs®
CABLE ELECTRONICS, INC.

HDMI Distribution Amplifier

Model HA 8

Integrated HCRS (HDMI Cable Retention System). Prevents accidental disconnects and service calls.

Silicon Image™ PanelLink® digital technology.

Supports HDTV resolutions 480i, 480P, 720P, 1080i, & 1080P
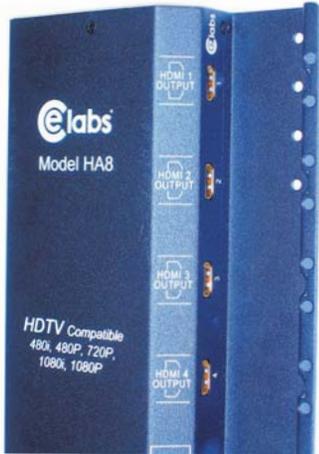
Cascadable for larger display systems.

Heavy duty metal housing. Commercial duty rated.

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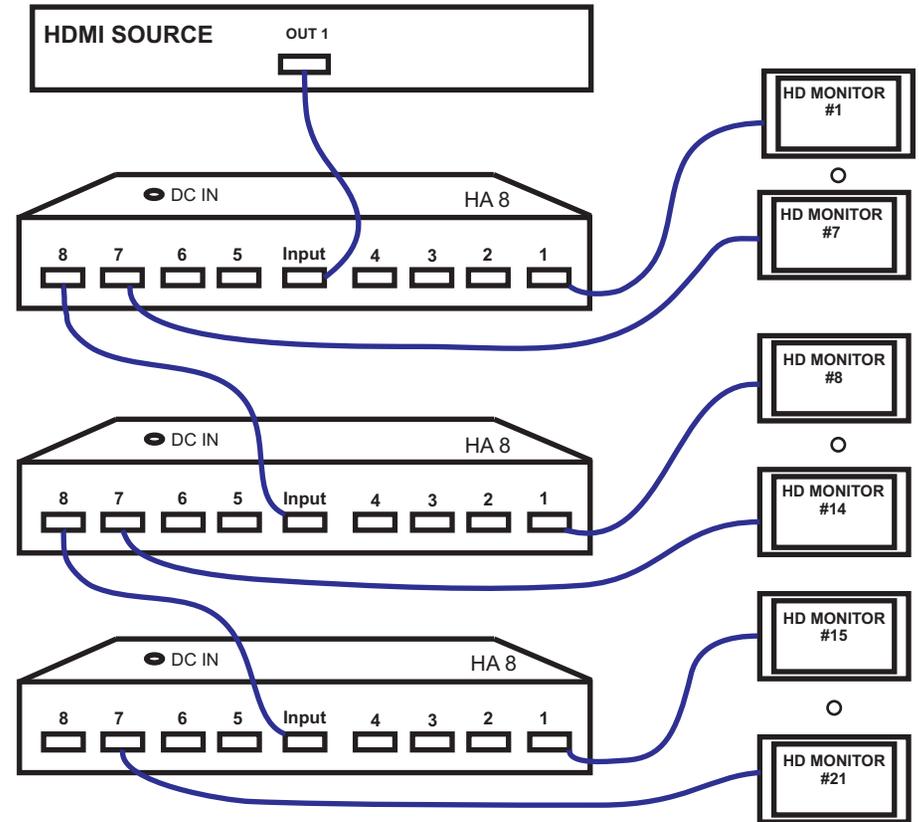Silicon Image and PanelLink are registered trademarks of Silicon Image, Inc.

Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C.)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5 Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

PIN 19 — PIN 1
PIN 18 — PIN 2

Model HA8

HDTV Compatible
480i, 480P, 720P,
1080i, 1080P

Use these holes to secure
the HDMI cables with a cable tie.

HDMI Distribution Amplifiers Cascade Configuration

HA8 Units may be cascaded 7 layer deep.

HDMI SOURCE — OUT 1

HD MONITOR #1
HD MONITOR #7

DC IN — HA 8
8 7 6 5 Input 4 3 2 1

HD MONITOR #8
HD MONITOR #14

DC IN — HA 8
8 7 6 5 Input 4 3 2 1

HD MONITOR #15
HD MONITOR #21

DC IN — HA 8
8 7 6 5 Input 4 3 2 1

Installation / Operation Instructions

1. Turn off the devices to be connected together.
2. Connect the HDMI cable between the source (DVD, Satellite Receiver, etc.) and the "HDMI In" port of the Distribution Amplifier.
3. Connect the HDMI cables from the outputs of the distribution amplifier to the inputs of the monitors.
4. Power up the Distribution Amplifier and the Monitor connected to HDMI output number one on the amplifier. Leave the other monitors off for now.
5. Turn on power to the source device. The monitor connected to output number one should have picture and sound within about 5 seconds.
6. Turn on power to the remaining monitors.
7. Install cable ties through the two holes on either side of the cable if desired to prevent accidental unplugging of the HDMI cables. See picture above.

NOTES: 1. All monitors connected to the distribution amplifier should be capable of the same resolution.
2. Always connect the first monitor to output number one on the Distribution Amplifier first. This is necessary for the Electronic ID to be read properly by the source.
3. For optimum performance, try to use HDMI cables no longer than 5 meters in length.

SPECIFICATIONS

Model	HA8
HDMI **Input** Connector (A-Type Female)	1
HDMI **Output** Connector (A-Type Female)	8
Max. Resolution	1080P
Cable Distance (Device to Monitor)	10 m (Max.)
Signal Type	Standard HDMI Signals
Power Adapter (Min.)	DC 5V 4A
Housing	Metal
Weight	(3.5 lbs.) 1.5 Kg
Dimensions (LxWxH) mm	(15.8" x 6.3" x 1.5") 400 x 160 x 38